

***** STN Columbus *****

FILE 'HOME' ENTERED AT 11:00:47 ON 07 MAY 2007

=> file casreact

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'CASREACT' ENTERED AT 11:01:05 ON 07 MAY 2007

USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT

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FILE CONTENT:1840 - 5 May 2007 VOL 146 ISS 20

New CAS Information Use Policies, enter HELP USAGETERMS for details.

*
* CASREACT now has more than 12 million reactions *
*

Some CASREACT records are derived from the ZIC/VINITI database (1974-1999) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>

Uploading C:\Program Files\Stnexp\Queries\10526327.str

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR

Me—Li ———> Me—G1—Li

G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 11:01:24 FILE 'CASREACT'

SCREENING COMPLETE - 277 REACTIONS TO VERIFY FROM

104 DOCUMENTS

100.0% DONE 277 VERIFIED 0 HIT RXNS

0 DOCS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED VERIFICATIONS: 4542 TO 6538
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1 (0 REACTIONS)

=> s l1 ful

FULL SEARCH INITIATED 11:01:31 FILE 'CASREACT'

SCREENING COMPLETE - 8277 REACTIONS TO VERIFY FROM 2206 DOCUMENTS

100.0% DONE 8277 VERIFIED 0 HIT RXNS 0 DOCS
SEARCH TIME: 00.00.05

L3 0 SEA SSS FUL L1 (0 REACTIONS)

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

114.45

114.66

FILE 'REGISTRY' ENTERED AT 11:02:39 ON 07 MAY 2007

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 6 MAY 2007 HIGHEST RN 934336-20-6

DICTIONARY FILE UPDATES: 6 MAY 2007 HIGHEST RN 934336-20-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\0526327.str

L4 STRUCTURE UPLOADED

=> d

L4 HAS NO ANSWERS

L4 STR

Me—G1—Li

G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l4

SAMPLE SEARCH INITIATED 11:02:57 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1585 TO ITERATE

100.0% PROCESSED 1585 ITERATIONS
SEARCH TIME: 00.00.01

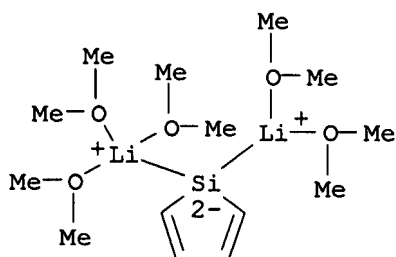
15 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 29312 TO 34088
PROJECTED ANSWERS: 68 TO 532

L5 15 SEA SSS SAM L4

=> d

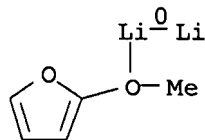
L5 ANSWER 1 OF 15 REGISTRY COPYRIGHT 2007 ACS on STN
RN 890706-11-3 REGISTRY
ED Entered STN: 06 Jul 2006
CN Lithium, pentakis[oxybis(methane)]-μ-silacyclopenta-2,4-dien-1-ylidenedi- (9CI) (CA INDEX NAME)
MF C14 H34 Li2 O5 Si
CI CCS
SR CA
LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d 15 2-15

L5 ANSWER 2 OF 15 REGISTRY COPYRIGHT 2007 ACS on STN
RN 858669-24-6 REGISTRY
ED Entered STN: 07 Aug 2005
CN Lithium, [2-(methoxy-κO)furan]di-, (Li-Li) (9CI) (CA INDEX NAME)
MF C5 H6 Li2 O2
CI CCS
SR CA
LC STN Files: CA, CAPLUS

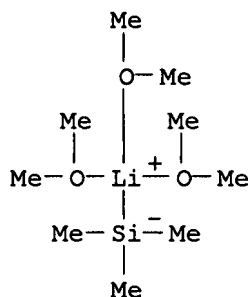


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 3 OF 15 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 831218-88-3 REGISTRY
 ED Entered STN: 15 Feb 2005
 CN Lithium(1+), tris[oxybis[methane]]-, compd. with (T-4)-
 tris[oxybis[methane]](trimethylsilyl)lithium (1:1) (9CI) (CA INDEX NAME)
 MF C9 H27 Li O3 Si . C6 H18 Li O3
 SR CA
 LC STN Files: CA, CAPLUS

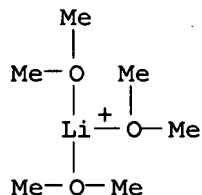
CM 1

CRN 731846-83-6
 CMF C9 H27 Li O3 Si
 CCI CCS



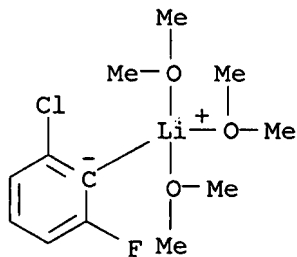
CM 2

CRN 172990-37-3
 CMF C6 H18 Li O3
 CCI CCS



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

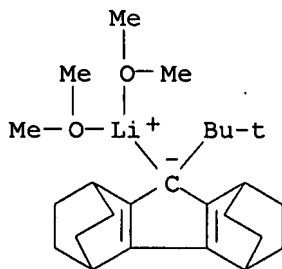
L5 ANSWER 4 OF 15 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 807631-34-1 REGISTRY
 ED Entered STN: 04 Jan 2005
 CN Lithium, (2-chloro-6-fluorophenyl)tris[oxybis[methane]]-, (T-4)- (9CI)
 (CA INDEX NAME)
 MF C12 H21 Cl F Li O3
 CI CCS
 SR CA
 LC STN Files: CA, CAPLUS



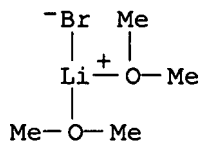
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 5 OF 15 REGISTRY COPYRIGHT 2007 ACS on STN
RN 562092-45-9 REGISTRY
ED Entered STN: 07 Aug 2003
CN Lithium, [9-(1,1-dimethylethyl)-2,3,4,5,6,7,8,9-octahydro-1,4:5,8-diethano-1H-fluoren-9-yl]bis[oxybis[methane]]- (9CI) (CA INDEX NAME)
MF C25 H41 Li O2
CI CCS, COM
SR CA



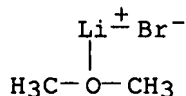
L5 ANSWER 6 OF 15 REGISTRY COPYRIGHT 2007 ACS on STN
RN 521085-95-0 REGISTRY
ED Entered STN: 27 May 2003
CN Lithium, bromobis[oxybis[methane]]- (9CI) (CA INDEX NAME)
MF C4 H12 Br Li O2
CI CCS
SR CA
LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

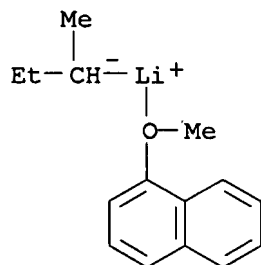
L5 ANSWER 7 OF 15 REGISTRY COPYRIGHT 2007 ACS on STN
RN 521085-94-9 REGISTRY

ED Entered STN: 27 May 2003
 CN Lithium, bromo[oxybis[methane]]- (9CI) (CA INDEX NAME)
 MF C2 H6 Br Li O
 CI CCS
 SR CA
 LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 8 OF 15 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 450408-00-1 REGISTRY
 ED Entered STN: 13 Sep 2002
 CN Lithium, (1-methoxynaphthalene)(1-methylpropyl)- (9CI) (CA INDEX NAME)
 MF C15 H19 Li O
 CI CCS
 SR CA
 LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 9 OF 15 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 268557-65-9 REGISTRY
 ED Entered STN: 06 Jun 2000
 CN Lithium(1+), tetrakis[1-(methoxy-κO)-2-methoxyethane]-, (T-4)-, stereoisomer of [μ-(dinitrogen-κN:κN')]bis[5,11,17,23-tetrakis(1,1-dimethylethyl)pentacyclo[19.3.1.13,7.19,13.115,19]octacos-1(25),3,5,7(28),9,11,13(27),15,17,19(26),21,23-dodecaene-25,26,27,28-tetrolato(4-)-κO,κO',κO'',κO''']diniobate(2-)(2:1) (9CI) (CA INDEX NAME)

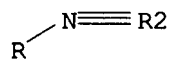
OTHER CA INDEX NAMES:

CN Niobate(2-), [μ-(dinitrogen-κN:κN')]bis[5,11,17,23-tetrakis(1,1-dimethylethyl)pentacyclo[19.3.1.13,7.19,13.115,19]octacos-1(25),3,5,7(28),9,11,13(27),15,17,19(26),21,23-dodecaene-25,26,27,28-tetrolato(4-)-κO,κO',κO'',κO''']di-, stereoisomer, bis[(T-4)-tetrakis[1-(methoxy-κO)-2-methoxyethane]lithium(1+)] (9CI)
 MF C88 H104 N2 Nb2 O8 . 2 C16 H40 Li O8
 SR CA
 LC STN Files: CA, CAPLUS

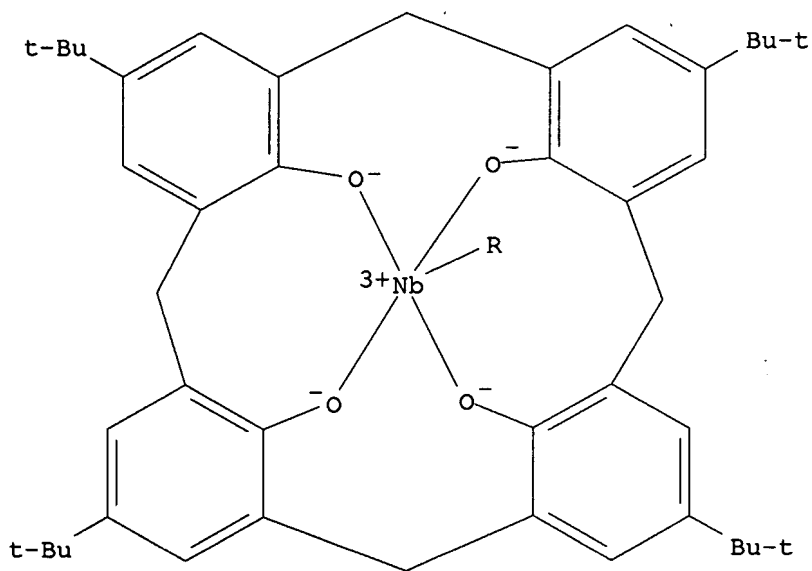
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CRN 200999-29-7
CMF C88 H104 N2 Nb2 O8
CCI CCS

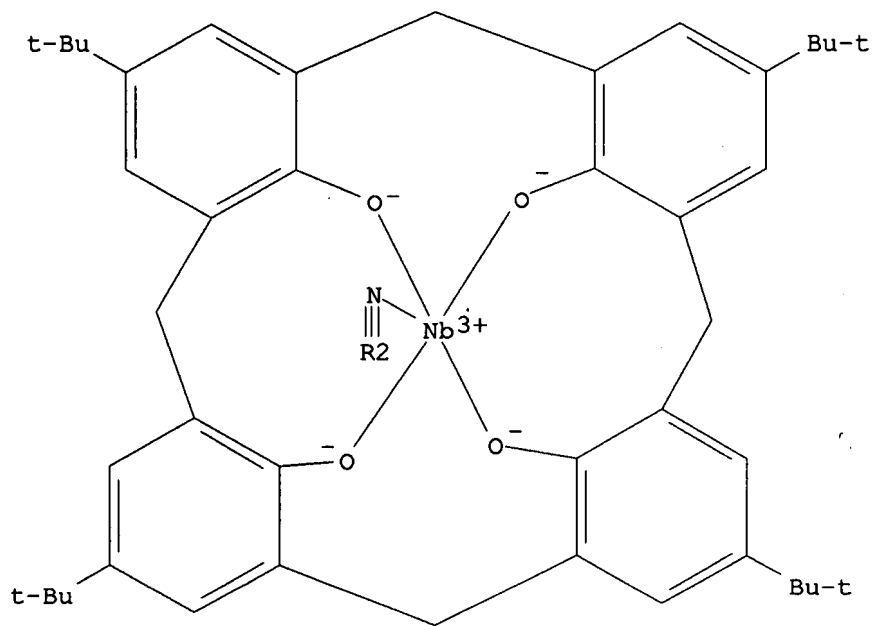
PAGE 1-A



PAGE 2-A

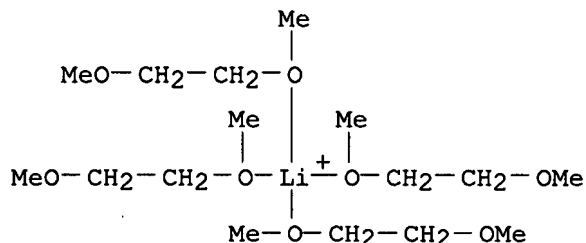


PAGE 3-A



CM 2

CRN 91946-83-7
CMF C16 H40 Li O8
CCI CCS



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 10 OF 15 REGISTRY COPYRIGHT 2007 ACS on STN

RN 167874-60-4 REGISTRY

ED Entered STN: 19 Sep 1995

CN Lithium(2+), μ^3 -methoxytri-, (tetrahydrofuran)lithium(1+)
 μ^3 -oxotris[μ -[(4,5- η :5,6- η)-1,4,5,6-tetrahydro-2,3-
bis(trimethylsilyl)-2,3-dicarbahehexaborato(2-))]tris[(2,3,4,5,6- η)-
1,4,5,6-tetrahydro-2,3-bis(trimethylsilyl)-2,3-dicarbahehexaborato(2-
)]triterbate(5-) (1:3:1) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Lithium(1+), (tetrahydrofuran)-, μ^3 -methoxytrilithium(2+)
 μ^3 -oxotris[μ -[(4,5- η :5,6- η)-1,4,5,6-tetrahydro-2,3-
bis(trimethylsilyl)-2,3-dicarbahehexaborato(2-))]tris[(2,3,4,5,6- η)-
1,4,5,6-tetrahydro-2,3-bis(trimethylsilyl)-2,3-dicarbahehexaborato(2-
)]triterbate(5-) (3:1:1) (9CI)

CN Terbate(5-), μ^3 -oxotris[μ -[(4,5- η :5,6- η)-1,4,5,6-tetrahydro-
2,3-bis(trimethylsilyl)-2,3-dicarbahehexaborato(2-))]tris[(2,3,4,5,6- η)-
1,4,5,6-tetrahydro-2,3-bis(trimethylsilyl)-2,3-dicarbahehexaborato(2-)]tri-,
 μ^3 -methoxytrilithium(2+) (tetrahydrofuran)lithium(1+) (1:1:3) (9CI)

DR 173907-54-5

MF C48 H132 B24 O Si12 Tb3 . 3 C4 H8 Li O . C H3 Li3 O

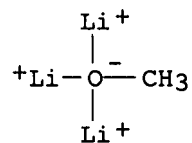
CI COM

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 167874-59-1
CMF C H3 Li3 O
CCI CCS

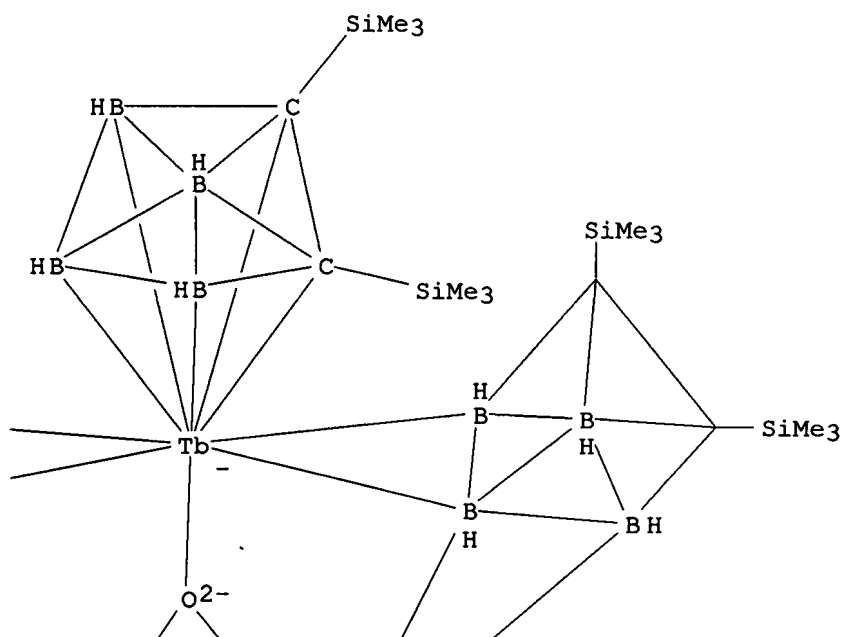


CM 2

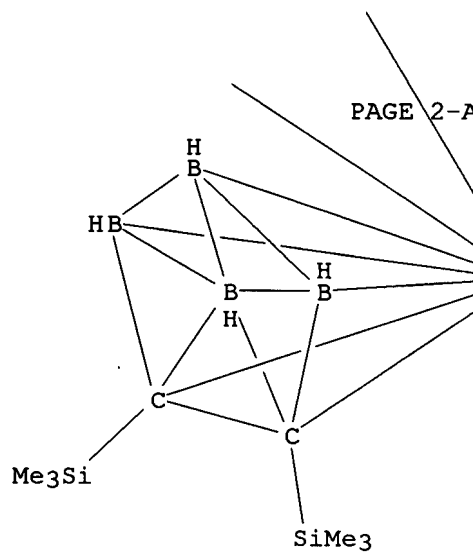
CRN 167874-58-0
CMF C48 H132 B24 O Si12 Tb3
CCI CCS

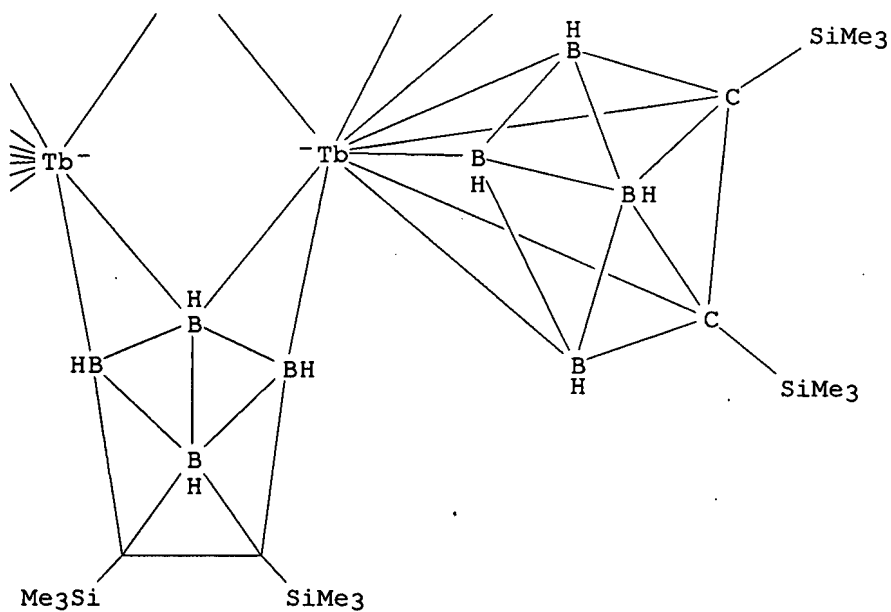
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

PAGE 1-B



PAGE 2-A



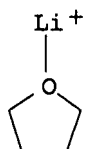


CM 3

CRN 53307-59-8

CMF C4 H8 Li O

CCI CCS



2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 11 OF 15 REGISTRY COPYRIGHT 2007 ACS on STN

RN 154329-50-7 REGISTRY

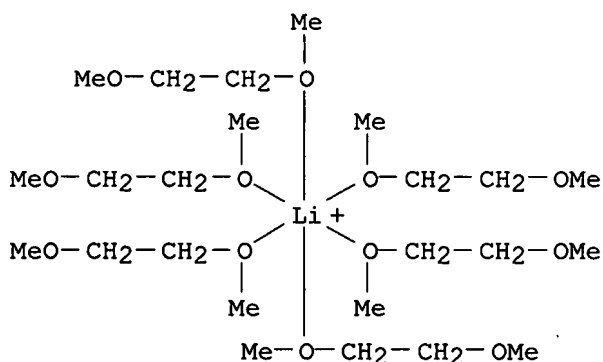
ED Entered STN: 13 Apr 1994

CN Lithium(1+), hexakis(1,2-dimethoxyethane-O)-, (OC-6-11)- (9CI) (CA INDEX NAME)

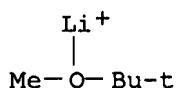
MF C24 H60 Li O12

CI CCS, COM

SR CA

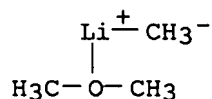


L5 ANSWER 12 OF 15 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 145780-32-1 REGISTRY
 ED Entered STN: 09 Feb 1993
 CN Lithium(1+), (2-methoxy-2-methylpropane)- (9CI) (CA INDEX NAME)
 MF C5 H12 Li O
 CI CCS, COM
 SR CA
 LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

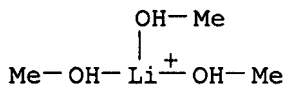
L5 ANSWER 13 OF 15 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 122677-30-9 REGISTRY
 ED Entered STN: 15 Sep 1989
 CN Lithium, methyl[oxybis[methane]]- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Methane, oxybis-, lithium complex
 MF C3 H9 Li O
 CI CCS
 SR CA
 LC STN Files: CA, CAPLUS



5 REFERENCES IN FILE CA (1907 TO DATE)
 5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 14 OF 15 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 107171-63-1 REGISTRY
 ED Entered STN: 21 Mar 1987
 CN Lithium(1+), tris(methanol)-, iodide (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Methanol, lithium complex
 MF C3 H12 Li O3 . I

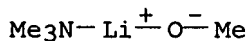
CI CCS
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
CRN (270583-93-2)



● I⁻

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 15 OF 15 REGISTRY COPYRIGHT 2007 ACS on STN
RN 67910-34-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Lithium, (N,N-dimethylmethanamine)methoxy- (9CI) (CA INDEX NAME)
MF C4 H12 Li N O
CI CCS
LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file casreact

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
31.50	146.16

FULL ESTIMATED COST

FILE 'CASREACT' ENTERED AT 11:05:28 ON 07 MAY 2007
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
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FILE CONTENT:1840 - 5 May 2007 VOL 146 ISS 20

New CAS Information Use Policies, enter HELP USAGETERMS for details.

* CASREACT now has more than 12 million reactions *
* *****

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=>

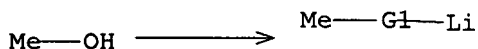
Uploading C:\Program Files\Stnexp\Queries\526327.str

L6 STRUCTURE UPLOADED

=> d

L6 HAS NO ANSWERS

L6 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s 16

SAMPLE SEARCH INITIATED 11:05:44 FILE 'CASREACT'

SCREENING COMPLETE - 352 REACTIONS TO VERIFY FROM 122 DOCUMENTS

100.0% DONE 352 VERIFIED 0 HIT RXNS 0 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED VERIFICATIONS: 5915 TO 8165

PROJECTED ANSWERS: 0 TO 0

L7 0 SEA SSS SAM L6 (0 REACTIONS)

=> s 16 ful

FULL SEARCH INITIATED 11:05:54 FILE 'CASREACT'

SCREENING COMPLETE - 9168 REACTIONS TO VERIFY FROM 2392 DOCUMENTS

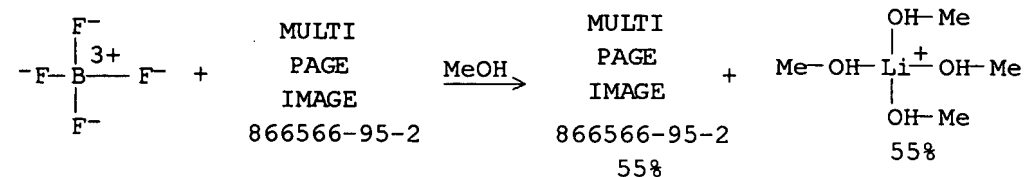
100.0% DONE 9168 VERIFIED 10 HIT RXNS 4 DOCS
SEARCH TIME: 00.00.03

L8 4 SEA SSS FUL L6 (10 REACTIONS)

=> d 18 1-4

L8 ANSWER 1 OF 4 CASREACT COPYRIGHT 2007 ACS on STN

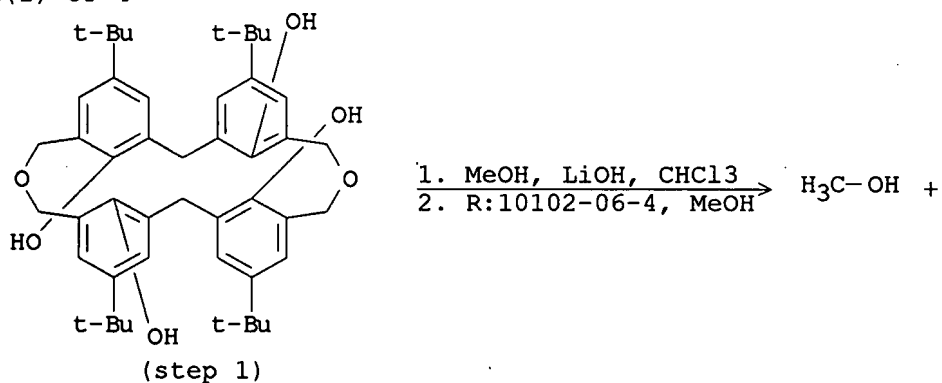
RX(3) OF 9



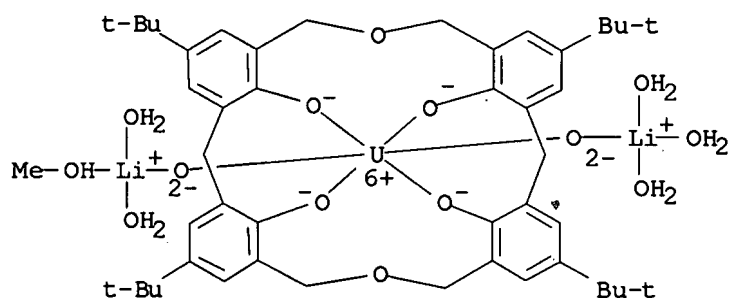
REF: Angewandte Chemie, International Edition, 44(47), 7710-7715;
2005

CON: room temperature

RX(1) OF 4



RX(1) OF 4

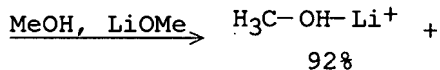
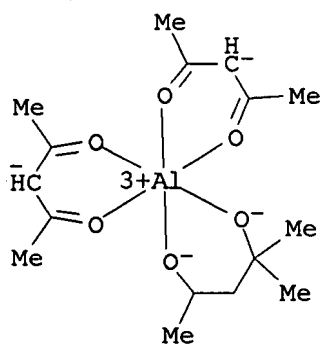


REF: Dalton Transactions, (12), 2411-2417; 2003

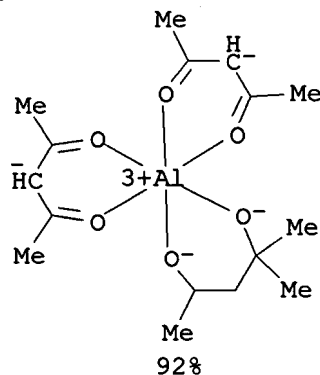
CON: STAGE(1) room temperature

STAGE(2) .5 hours, room temperature

RX(2) OF 23



H^+

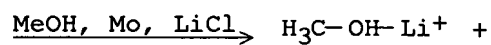


REF: Synthesis and Reactivity in Inorganic and Metal-Organic Chemistry, 31(4), 681-694; 2001

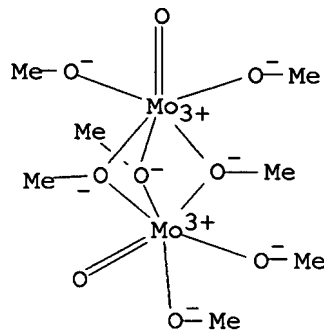
L8 ANSWER 4 OF 4 CASREACT COPYRIGHT 2007 ACS on STN

RX(7) OF 11

$\text{H}_3\text{C}-\text{OH}$



1/5 Ta(V)



REF: Journal of Sol-Gel Science and Technology, 19(1/2/3), 725-728; 2000

NOTE: Electrochemical, alternative preparation shown